

## US005759398A

# United States Patent [19]

## **Kielbowicz**

[11] Patent Number:

5,759,398

[45] Date of Patent:

Jun. 2, 1998

[54]	SCREEN FOR INLET OPENING OF A PUMP	
[75]	Inventor:	Stanisław Kielbowicz, Wädenswil, Switzerland
[73]	Assignee:	Sulzer Thermtec AG, Winterthur, Switzerland
[21]	Appl. No.:	704,415
[22]	Filed:	Aug. 28, 1996
[30]	Forei	gn Application Priority Data
Jul.	12, 1996	[EP] European Pat. Off 96810462
[51]	Int. Cl. <sup>6</sup> .	<b>B01D 35/02</b> ; B01D 29/33
[52]	U.S. Cl	<b></b>
		210/489
[58]	Field of S	earch 210/232, 416.1,
	2	10/167, 484, 489, 452, 460, 448; 417/313

#### [56] References Cited

#### U.S. PATENT DOCUMENTS

3,326,382 6/1967 Bozek et al	210/484 210/489 210/484 210/167 210/484
------------------------------	---

## FOREIGN PATENT DOCUMENTS

WO 94/14166 6/1994 WIPO .

Primary Examiner—Neil McCarthy
Assistant Examiner—Theodore M. Green
Attorney, Agent, or Firm—Townsend and Townsend and
Crew LLP

### [57] ABSTRACT

A suction sieve has a cylindrical sieve body made up of several annular, modular cassette elements that are axially spaced apart and coupled to one another. The cassette elements surround a central suction chamber and are clamped together between an end plate that covers the suction chamber and a flange for connection to a suction line of a cooling water pump. Each cassette unit is formed of two annular, perforated side wall sections and several perforated wall segments that are circumferentially spaced apart and arranged between the side wall sections. The perforated wall segments and the side wall sections form sieve pockets that essentially extend in the radial direction and open toward the outer periphery of the sieve body so that water can flow through the sieve pockets in all directions. Discharge gaps extend in an essentially radial direction, open into the suction chamber, and are formed between the sieve pockets and between the cassette units. Water that emerges from the sieve pockets is discharged into the suction chamber through the discharge gaps. A particularly favorable ratio between the volume of the sieve body and the effective sieving surface is attained.

#### 7 Claims, 3 Drawing Sheets

